



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Giles et al.)
) Art Unit: 3642
)
Serial Number: 10/603,824) Examiner: N/A
)
Filed: June 26, 2003) Atty Docket: DEH058

For: Mass Spectrometer

COMMISSIONER FOR PATENTS
PO Box 1450
Alexandria, VA 22313-1450

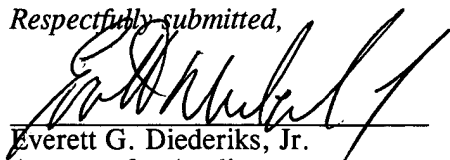
Sir:

The below identified communication(s) or document(s) is(are) submitted in the above application or proceeding:

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Respectfully submitted,


Everett G. Diederiks, Jr.
Attorney for Applicant
Registration Number: 33,323

Date: April 19, 2004



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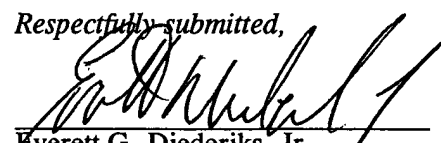
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INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to Rule 37 C.F.R. §1.51(b), §1.56, §1.97, and §1.98, this Information Disclosure Statement is submitted in the above-identified patent application. A listing of documents to be published on the face of any patent granted from this application is submitted herewith on Form PTO-1449 with a copy thereof.

CONCISE STATEMENT OF RELEVANCY
(Non-English Language Documents Only)

Each of the foreign references cited in the Information Disclosure Statement generally pertains to the art of mass spectrometry. Abstracts in English are being provided to aid the Examiner in considering the potential relevancy of the cited documents.

CERTIFICATION

This Information Disclosure Statement is submitted within three months of the filing date of and/or prior to the issuance of a first Office Action in the above-identified U.S. patent application.

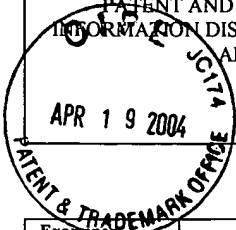
The Examiner is requested to acknowledge consideration of the information provided in this paper in accordance with prescribed procedures.

Respectfully submitted,

Everett G. Diederiks, Jr.
Attorney for Applicant
Registration No. 33,323

Date: April 19, 2004

FORM PTO 1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO. DEH058	SERIAL NO. 10/603,824
	APPLICANT Giles et al.	
	FILING DATE June 26, 2003	GROUP 3642



U.S. Patent Documents

Examiner Initial	Document Number	Date	Patentee/Applicant	Class	Subclass	Filing Date if Appropriate
	3,778,678	12/73	MASUDA			
	3,806,763	04/74	MASUDA			
	3,872,361	03/75	MASUDA			
	5,206,506	04/93	KIRCHNER			
	5,572,035	11/96	FRANZEN			
	5,811,800	09/98	FRANZEN ET AL.			
	5,818,055	10/98	FRANZEN			
	5,847,386	12/98	THOMSON ET AL.			
	5,905,258	05/99	CLEMMER ET AL.			
	6,107,628	08/00	SMITH ET AL.			
	6,403,953	06/02	WHITEHOUSE ET AL.			
	6,417,511	07/02	RUSS, IV ET AL.			
	6,489,610	12/02	BAROFSKY ET AL.			
	6,498,342	12/02	CLEMMER			
	6,545,268	04/03	VERENTCHIKOV ET AL.			
	6,559,444	05/03	FRANZEN			
	6,670,606	12/03	VERENTCHIKOV ET AL.			
	6,693,276	02/04	WEISS ET AL.			
	2001/0032929	10/01	FUHRER ET AL.			
	2002/0063207	05/02	BATEMAN ET AL.			
	2002/0063209	05/02	BATEMAN ET AL.			
	2002/0063210	05/02	BATEMAN ET AL.			
	2002/0079443	06/02	KRUTCHINSKY ET AL.			
	2002/0113207	08/02	LEE ET AL.			
	2002/0148959	10/02	WEISS ET AL.			
	2002/0190200	12/02	ZAJFMAN ET AL.			

Foreign Patent Documents

Examiner Initial	Document Number	Publication Date	Country/Agency	Class	Subclass	Translation	
	2,281,405	03/00	Canada			Yes	No
	11-307040	11/99	Japan				
	2000-113852	04/00	Japan				
	2000-123780	04/00	Japan				
	2,375,653	11/02	UK				
	WO 94/01883	01/94	WO				

		WO 97/49111	12/97	WO				
		WO 02/43105	05/02	WO				

Other Documents (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

	Hu et al., "Design of Traveling-Wave Field Panel for Pharmaceutical Powders Based on Computer Simulation of Particle Trajectories", IEEE Transactions on Industry Applications, Vol. 33, No. 3, pp. 641-650, 1997.
	Masuda et al., "Approximate Methods For Calculating a Non-Uniform Travelling Field", Journal of Electrostatics, Vol. 1, pp. 351-370, 1975.
	Masuda et al., "Characteristics of Standing-Wave, Ring-Type Electric Curtain. Experimental Study", Electrical Engineering in Japan, Vol. 93, No. 1, pp. 78-83, 1973.
	Masuda et al., "Separation of Small Particles Suspended in Liquid by Nonuniform Traveling Field", IEEE Transactions on Industry Applications, Vol. 1A-23, No. 3, pp. 474-480, 1987.
	Masuda et al., "Approximation for Calculating Nonuniform Traveling Fields", Electrical Engineering In Japan, Vol. 96, No. 5, pp. 25-31, 1976.
	Gerlich, "Inhomogeneous RF Fields: A Versatile Tool For the Study of Processes With Slow Ions", Adv. In Chem. Phys. Ser., Vol. 82, Ch. 1, pp. 1-176, 1992.
	Teloy et al., "Integral Cross Sections For Ion-Molecule Reactions. I. The Guided Beam Technique", Chemical Physics, Vol. 4, pp. 417-427, 1974.
	Dodonov et al., "A New Technique For Decomposition of Selected Ions in Molecule Ion Reactor Coupled With Ortho-Time-Of-Flight Mass Spectrometry", Rapid Communications in Mass Spectrometry, Vol. 11, pp. 1649-1656, 1997.
	Shaffer et al., "A Novel Ion Funnel for Ion Focusing at Elevated Pressures", ASMS Book of Abstracts, pp. 375, 1997.
	Gerlich et al., "Ion Trap Studies of Association Processes in Collisions of CH_3^+ and CD_3^+ With $n\text{-H}_2$, $p\text{-H}_2$, D_2 , and He at 80 K", Astrophysical Journal, Vol. 347, pp. 849-854, 1989.
	Shaffer et al., "An Ion Funnel Interface for Improved Ion Focusing and Sensitivity Using Electrospray Ionization Mass Spectrometry", Analytical Chemistry, Vol. 70, pp. 4111-4119, 1998.
	Shaffer et al., "Characterization of an Improved Electrodynamical Ion Funnel Interface for Electrospray Ionization Mass Spectrometry", Analytical Chemistry, Vol. 71, pp. 2957-2964, 1999.
	Kim et al., "Design and Implementation of a New Electrodynamical Ion Funnel", Analytical Chemistry, Vol. 72, pp. 2247-2255, 2000.
	Tolmachev et al., "Charge Capacity Limitations of Radio Frequency Ion Guides in Their Use for Improved Ion Accumulation and Trapping in Mass Spectrometry". Analytical Chemistry, Vol. 72, pp. 970-978, 2000.
	Giles et al., "Evaluation of a Stacked-Ring Radio Frequency Ion Transmission Device at Intermediate Pressures", ASMS Book of Abstract, pp. 1, 2001.
	Gerlich, "Rf Ion Guides", Encyclopedia of Mass Spectrometry, Vol. 5, Chemistry and Physics of Gas-Phase Ions, pp. 1-34, 2003.
	Luca et al., "On the Combination of a Linear Field Free Trap With a Time-Of Flight Mass Spectrometer", Review of Scientific Instruments, Vol. 72, No. 7, pp. 2900-2908, 2001.
	Guan et al., "Stacked-Ring Electrostatic Ion Guide", J. Am. Soc. Mass Spec., Vol. 7, pp. 101-106, 1996.
	Franzen, "Electrical Ion Guides", ASMS Book of Abstracts. pp. 1170, 1996.
	Shaffer et al., "A Novel Ion Funnel For Focusing Ions at Elevated Pressure Using Electrospray Ionization Mass Spectrometry", Rapid Communications in Mass Spectrometry, Vol. 11, pp. 1813-1917, 1997.

Examiner	Date Considered
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Examiner: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; Draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.